

Title (en)  
EARPHONE

Title (de)  
KOPFHÖRER

Title (fr)  
ÉCOUTEUR

Publication  
**EP 2811757 A1 20141210 (EN)**

Application  
**EP 13744295 A 20130129**

Priority  
• JP 2012016760 A 20120130  
• JP 2013000471 W 20130129

Abstract (en)  
An earphone includes: a loudspeaker unit; a sound conductive tube which is connected to a front surface having a diaphragm included in the loudspeaker unit, and has a hole through which a sound generated from the loudspeaker unit is emitted; a housing which is connected to a back surface of the loudspeaker unit so that a space is formed between the housing and the back surface of the loudspeaker unit, and has a first air hole connecting the space to external air; a first braking part which closes a sound hole of the loudspeaker unit; and a second braking part which closes the first air hole.

IPC 8 full level  
**H04R 1/28** (2006.01); **H04R 1/10** (2006.01); **H04R 9/02** (2006.01); **H04R 25/00** (2006.01); **H04R 25/02** (2006.01)

CPC (source: EP US)  
**H04R 1/10** (2013.01 - US); **H04R 1/2811** (2013.01 - EP US); **H04R 25/02** (2013.01 - US); **H04R 25/48** (2013.01 - EP US);  
**H04R 1/1016** (2013.01 - EP US); **H04R 9/027** (2013.01 - EP US)

Cited by  
EP3509321A4

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 2014056455 A1 20140227**; **US 9319767 B2 20160419**; EP 2811757 A1 20141210; EP 2811757 A4 20150121; EP 2811757 B1 20160525;  
JP 6136016 B2 20170531; JP WO2013114864 A1 20150511; WO 2013114864 A1 20130808

DOCDB simple family (application)  
**US 201314003892 A 20130129**; EP 13744295 A 20130129; JP 2013000471 W 20130129; JP 2013556262 A 20130129